

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	{"20050024331"}.PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19
L2	2	{"5305429"}.PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19
L3	2	{"5440476"}.PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19
L4	1	L1 and (brake same current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L5	9	haptic and ((cable chord) same brak\$3 same (pulley spool wheel) same (current voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L6	5	{"4742473"   "4831531"   "4868549"   "5095302"   "5184319"}.PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/01 23:19
L7	8	{"5305429"}.URPN.	USPAT	OR	ON	2009/02/01 23:19
L8	12	{"5440476"}.URPN.	USPAT	OR	ON	2009/02/01 23:19
L9	1551	((cable chord) same brak \$3 same (pulley spool wheel) same (current voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L10	41	((cable chord) same (pulley spool wheel) same (((stop\$4 remov\$3 absen\$3 "no" "not") near5 (current voltage)) with brak\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L11	12	((cable chord) same (pulley spool wheel) same (((stop\$4 remov\$3 absen\$3 "no" "not") near5 (current voltage)) with brak\$3) same solenoid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19

L12	941	{(haptic near3 (input interface device)) tool) and ((cable chord string wire) same (brak\$3 tension drag\$4 resistance) same (pulley spool wheel)) and ((messur\$3 detect\$3 sens\$3 determin\$3 calculat\$3) near5 rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L13	273968	{("318") or ("345") or ("700") or ("703")). CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19
L14	79	L13 and L12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L15	19	{("2164128"   "4625938"   "4666362"   "4683773"   "4710819"   "4765795"   "4883184"   "5053687"   "5253771"   "5313854"   "5408407"   "5440476"   "5507596"   "5585707"   "5653066"   "5848499"   "5916328"   "6126023"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/01 23:19
L16	7	{("6566834").URPN.	USPAT	OR	ON	2009/02/01 23:19
L17	12	{("5440476").URPN.	USPAT	OR	ON	2009/02/01 23:19
L18	15	{("5248960") or ("5305429") or ("5389865") or ("5576727") or ("5577981") or ("5587937") or ("5709219") or ("5828813") or ("6281651") or ("6385509") or ("6394998") or ("6413229") or ("6417638") or ("6630923") or ("20010038376")).PN.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L19	1	{("6630923").PN.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L20	5	{("5143505"   "5577981"   "5589828"   "6246390"   "6366273").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/01 23:19
L21	14994	{(318/560,568.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19

L22	169	{pulley spool wheel} same ((stop\$4 remov\$3 absen\$3 "no" "not") near\$ (current voltage)) with brak\$3) same solenoid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L23	0	L21 and L22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L24	116	L21 and ((cable chord string rope chord) same (pulley spool wheel) same (tension resistance brak\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L25	14994	((318/560,568.1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L26	135	L25 and ((cable wire string rope chord) same (pulley spool wheel)) and (brak\$3 same motor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L27	5	L25 and ((cable wire string rope chord) same (pulley spool wheel)) and ((lock\$3 brak\$3) with (((turn\$3 power\$3) near2 off) shutdown (shut \$4 near down)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L28	43431	{measur\$3 determin\$3 calculat\$3 detect\$3) with (distance length) with (cable wire chord wire rope string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L29	267013	{tension resistance) with (cable wire chord wire rope string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L30	28742	{lock\$3 brak\$3 prevent\$3 stop\$4) with (pulley wheel spool motor cable wire chord wire rope string) with (((power\$3 shut\$4 turn\$3) near2 (down off)) shutdown)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L31	14994	((318/560,568.1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19

L32	2	L31 and L28 and L29 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L33	273988	((("318") or ("345") or ("700") or ("703"))). CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19
L34	7	L33 and L28 and L29 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L35	105	L31 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L36	101692	("345").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19
L37	6	L36 and L29 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L38	137	L33 and L29 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L39	317163	{pulley wheel spool motor) with (cable wire chord wire rope string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L40	516	L33 and L39 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L41	16	L31 and L39 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19

L42	72271	{variable chang\$3 vary\$3 varies varied modify\$3 modifies modified select \$5 adapt\$3 custom\$5 increas\$3 decreas\$3 lower \$3) with (tension resistance) with (cable wire chord wire rope string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L43	97	L28 and L42 and L30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L44	264	L36 and L39 and ((measur \$3 determin\$3 calculat\$3 detect\$3) with (rotat\$3 roll pitch yaw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L45	233	L36 and L39 and ((measur \$3 determin\$3 calculat\$3 detect\$3) with (rotat \$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L46	36	L36 and L39 and ((measur \$3 determin\$3 calculat\$3 detect\$3) with (rotat\$3 and roll and pitch and yaw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L47	6	L36 and L39 and (sensor with (measur\$3 determin \$3 calculat\$3 detect\$3) with (rotat\$3 and roll and pitch and yaw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L48	109	L36 and L39 and (gyroscope accelerometer (inertial near2 sens\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L49	14994	((318/560,568.1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L50	2689	L49 and (roll pitch yaw)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L51	2	{*6704001*}.PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19

L52	9	{(roll pitch yaw) with wireless with (cursor near3 control\$4)}	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L53	1	{(roll pitch yaw) with (wireless near5 (cursor near2 control\$4))}	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L54	14994	{{(316/560,566.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)}.CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L55	1220936	{{(turn\$3 shut\$4 power\$3) near2 (off down disabl\$3 remov\$3)} shutdown	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L56	804254	{{(turn\$3 start\$4 power \$3) near2 (on up enabl\$3 appl\$4)} startup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L57	680401	{{(sav\$3 stor\$3 memoriz\$3) near5 (position location point displac\$5 length)}	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L58	2	L54 and ((L55 with L57) same L56)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L59	6	L54 and (L55 same L57 same L56)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L60	201	L54 and ((L55 with (lock \$3 brak\$3 freez\$3 (rigid \$2 near3 fix\$3) hold\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L61	14994	{{(316/560,566.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)}.CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19

L62	1220936	((turn\$3 shut\$4 power\$3) near2 (off down disabl\$3 remov\$3)) shutdown	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L63	804254	((turn\$3 start\$4 power \$3) near2 (on up enabl\$3 appl\$4)) startup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L64	680401	(sav\$3 stor\$3 memoriz\$3) near5 (position location point displac\$5 length)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L65	6	L61 and (L62 same L64 same L63)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L66	14994	((318/560,568.1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L67	1220936	((turn\$3 shut\$4 power\$3) near2 (off down disabl\$3 remov\$3)) shutdown	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L68	680401	(sav\$3 stor\$3 memoriz\$3) near5 (position location point displac\$5 length)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L69	104	L66 and (L67 same L68)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L70	28	L66 and (L67 with L68)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L71	2	(*6681880*).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19

L72	14994	{(318/560,568,1-568,25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)),CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L73	74	L72 and ((haptic (force near5 (feedback response))) with (cable tension))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L74	24	L72 and ((haptic (force near5 (feedback response))) with (cable tension)) and ((measur\$3 detect\$3 calculat\$3 determin\$3) near5 (distance displacement length))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L75	167	{haptic (force near5 (feedback feed-beack (feed adj back) response)))}.ab. and ((haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) with (motor pulley))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L76	2	{*5587937*}.PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/01 23:19
L77	0	{haptic (force near5 (feedback feed-beack (feed adj back) response)))}.ab. and ((haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) with (motor pulley) with proportion \$2 with (distance displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L78	3	{(haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) with (motor pulley) with proportion \$2 with (distance displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L79	51	{(haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) same (motor pulley) same proportion \$2 same (distance displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19



L80	14994	((318/560,568.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/02/01 23:19
L81	68	L80 and ((stor\$3 recover \$3) near10 (initial start \$3 last previous) near10 ((start\$3 near3 up) startup (power\$3 near3 up)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
L82	5	L80 and ((stor\$3 recover \$3) near10 (initial start \$3 last previous) near10 ((start\$3 near3 up) startup (power\$3 near3 up)) near10 (position location))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/02/01 23:19
S1	2	("20050024331").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/10 17:07
S2	2	("5305429").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/10 16:40
S3	2	("5440476").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/10 16:40
S4	1	S1 and (brake same current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/10 17:08
S5	4	haptic and ((cable chord) same brak\$3 same (pulley spool wheel) same (current voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 17:55
S6	5	("4742473"   "4831531"   "4068549"   "5095302"   "5184319").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/10 17:28
S7	7	("5305429").URPN.	USPAT	OR	ON	2007/08/10 17:33
S8	11	("5440476").URPN.	USPAT	OR	ON	2007/08/10 17:35
S9	1511	((cable chord) same brak \$3 same (pulley spool wheel) same (current voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 16:45

S10	40	((cable chord) same (pulley spool wheel) same (((stop\$4 remov\$3 absen\$3 "no" "not") near\$5 (current voltage)) with brak\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 17:36
S11	42	((cable chord) same (pulley spool wheel) same (((stop\$4 remov\$3 absen\$3 "no" "not") near\$5 (current voltage)) with brak\$3) same solenoid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 18:41
S12	814	((haptic near\$3 (input interface device)) tool) and ((cable chord string wire) same (brak\$3 tension drag\$4 resistance) same (pulley spool wheel)) and ((measur\$3 detect\$3 sens\$3 determin\$3 calculat\$3) near\$5 rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 18:00
S13	250766	((("318") or ("345") or ("700") or ("703"))). CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/16 18:02
S14	73	S13 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 18:02
S15	19	("2164128"   "4625938"   "4666362"   "4683773"   "47110819"   "4765795"   "4883184"   "5053687"   "5253771"   "5313854"   "5408407"   "5440476"   "5507596"   "5585707"   "5653066"   "5848499"   "5916328"   "6126023"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/16 18:06
S16	6	("6566834").URPN.	USPAT	OR	ON	2007/08/16 18:08
S17	11	("5440476").URPN.	USPAT	OR	ON	2007/08/16 18:14
S18	15	((("5248960") or ("5305429") or ("5389865") or ("5576727") or ("5577981") or ("5587937") or ("5709219") or ("5828813") or ("6281651") or ("6385509") or ("6394998") or ("6413229") or ("6417638") or ("6630923") or ("20010038376"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/08/16 18:28

S19	1	{"6630923"}.PN.	US-PGPUB; USPAT	OR	OFF	2007/08/16 18:19
S20	5	{"5143505"   "5577981"   "5589828"   "6246390"   "6366273"}.PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/16 18:20
S21	12782	((318/560,568.1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/16 18:35
S22	169	{pulley spool wheel} same ((stop\$4 remov\$3 absen\$3 "no" "not") near5 (current voltage)) with brak\$3) same solenoid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 18:42
S23	0	S21 and S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 18:42
S24	107	S21 and ((cable chord string wire rope) same (pulley spool wheel) same (tension resistance brak\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/16 18:43
S25	12782	((318/560,568.1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/18 15:04
S26	125	S25 and ((cable wire string rope chord) same (pulley spool wheel)) and (brak\$3 same motor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/17 16:38
S27	3	S25 and ((cable wire string rope chord) same (pulley spool wheel)) and ((lock\$3 brak\$3) with ((turn\$3 power\$3) near2 off) shutdown (shut \$4 near down)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 14:57
S28	39790	(measur\$3 determin\$3 calculat\$3 detect\$3) with (distance length) with (cable wire chord wire rope string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:02
S29	250892	(tension resistance) with (cable wire chord wire rope string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:41

S30	26987	{lock\$3 brak\$3 prevent\$3 stop\$4) with (pulley wheel spool motor cable wire chord wire rope string) with ((power\$3 shut\$4 turn\$3) near2 (down off)) shutdown}	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:35
S31	12782	{{(318/560,568.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)}.CLAS.	US-PGPUB; USPAT	OR	OFF	2007/08/18 15:04
S32	2	S31 and S28 and S29 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:07
S33	250766	{{("318" or ("345" or ("700" or ("703"))).CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 15:07
S34	7	S33 and S28 and S29 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:07
S35	99	S31 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:32
S36	87507	{"345"}.CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/18 15:32
S37	6	S36 and S29 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:33
S38	131	S33 and S29 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:33
S39	297125	{pulley wheel spool motor) with (cable wire chord wire rope string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:36

S40	489	S33 and S39 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:36
S41	14	S31 and S39 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 16:44
S42	67941	{(variable chang\$3 vary\$3 varies varied modify\$3 modifies modified select \$5 adapt\$3 custom\$5 increas\$3 decreas\$3 lower \$3) with (tension resistance) with (cable wire chord wire rope string)}	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:42
S43	77	S28 and S42 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:44
S44	210	S36 and S39 and ((measur \$3 determin\$3 calculat\$3 detect\$3) with (rotat\$3 roll pitch yaw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 16:05
S45	200	S36 and S39 and ((measur \$3 determin\$3 calculat\$3 detect\$3) with (rotat \$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 15:56
S46	30	S36 and S39 and ((measur \$3 determin\$3 calculat\$3 detect\$3) with (rotat\$3 and roll and pitch and yaw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 16:08
S47	4	S36 and S39 and (sensor with (measur\$3 determin \$3 calculat\$3 detect\$3) with (rotat\$3 and roll and pitch and yaw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 16:13
S48	96	S36 and S39 and (gyroscope accelerometer (inertial near2 sens\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/18 16:14
S49	13108	{{(318/560,568,1- 568,25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLSL.	US-PGPUB; USPAT	OR	OFF	2007/11/15 15:03

S50	2335	S49 and (roll pitch yaw)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/13 16:44
S51	2	(*6704001*).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/11/15 14:33
S52	3	(roll pitch yaw) with wireless with (cursor near3 control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/15 15:01
S53	1	(roll pitch yaw) with (wireless near5 (cursor near2 control\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/15 14:57
S54	13123	{{(318/560,568.1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/15 15:03
S55	1123442	((turn\$3 shut\$4 power\$3 near2 (off down disabl\$3 remov\$3)) shutdown	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/15 15:07
S56	728991	((turn\$3 start\$4 power \$3) near2 (on up enabl\$3 appl\$4)) startup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/15 15:07
S57	611140	{sav\$3 stor\$3 memoriz\$3) near5 (position location point displac\$5 length)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/15 15:25
S58	2	S54 and ((S55 with S57) same S56)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/16 11:59
S59	4	S54 and (S55 same S57 same S56)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/15 15:47

S60	175	S54 and (S55 with (lock \$3 brak\$3 freez\$3 (rigid \$2 near3 fix\$3) hold\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/15 15:58
S61	13123	((318/560,568.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/16 11:59
S62	1123442	((turn\$3 shut\$4 power\$3) near2 (off down disabl\$3 remov\$3)) shutdown	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/16 11:59
S63	728991	((turn\$3 start\$4 power \$3) near2 (on up enabl\$3 appl\$4)) startup	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/16 11:59
S64	611140	{sav\$3 stor\$3 memoriz\$3) near5 (position location point displac\$5 length)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/16 11:59
S65	4	S61 and (S62 same S64 same S63)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/17 16:02
S66	13123	((318/560,568.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/17 16:02
S67	1123442	((turn\$3 shut\$4 power\$3) near2 (off down disabl\$3 remov\$3)) shutdown	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/17 16:02
S68	611140	{sav\$3 stor\$3 memoriz\$3) near5 (position location point displac\$5 length)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/17 16:02
S69	95	S66 and (S67 same S68)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/17 16:25

S70	27	S66 and (S67 with S68)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/17 16:51
S71	2	(*6681880*).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/05 18:20
S72	13995	((318/560,568,1- 568.25,575) or (345/156- 158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/06/05 18:22
S73	66	S72 and ((haptic (force near5 (feedback response))) with (cable tension))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/05 18:22
S74	18	S72 and ((haptic (force near5 (feedback response))) with (cable tension)) and ((measur\$3 detect\$3 calculat\$3 determin\$3) near5 (distance displacement length))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/05 18:40
S75	162	((haptic (force near5 (feedback feed-beack (feed adj back response))).ab. and ((haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) with (motor pulley))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/05 18:50
S76	2	(*5587937*).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/05 18:55
S77	0	((haptic (force near5 (feedback feed-beack (feed adj back response))).ab. and ((haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) with (motor pulley) with proportion \$2 with (distance displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/05 19:03



S78	2	{{(haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) with (motor pulley) with proportion \$2 with (distance displacement))}	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/05 19:04
S79	50	{{(haptic (force near5 (feedback response))) with (cable tension)) and ((cable tension wire rope) same (motor pulley) same proportion \$2 same (distance displacement))}	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/05 19:05
S80	13995	{{(318/560,568.1-568.25,575) or (345/156-158,161,163,184) or (463/30) or (600/595) or (700/260-264) or (703/7)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/06/08 18:56
S81	66	S80 and ((stor\$3 recover \$3) near10 (initial start \$3 last previous) near10 ((start\$3 near3 up) startup (power\$3 near3 up)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/08 18:56
S82	5	S80 and ((stor\$3 recover \$3) near10 (initial start \$3 last previous) near10 ((start\$3 near3 up) startup (power\$3 near3 up)) near10 (position location))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/08 19:01

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